

## **ABSTRACT OF THE DISCLOSURE**

A system is provided which is adapted to transport a fluid from a plurality of serially coupled tanks to a chamber configured to process microelectronic wafers. The  
5 system further includes a plurality of temperature controllers positioned such that the chamber and the tanks are characterized into at least three zones based upon the adaptations of the controllers to maintain the fluid within each zone within a distinct temperature range. A method is also provided which includes storing a fluid within a preliminary temperature range, transporting the fluid to an intermediate tank and  
10 controlling the fluid temperature within the intermediate tank to be within a transitional temperature range distinct from the preliminary temperature range. The method further includes delivering the fluid to a process chamber and controlling the fluid temperature within the process chamber to be within a process temperature range distinct from the preliminary and transitional temperature ranges.

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